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## METHOD FOR CONTROLLING INDUCTION-HEATING OF EDGE PARTS OF STEEL SHEET

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EC Classification:  
Equivalents:

### Abstract

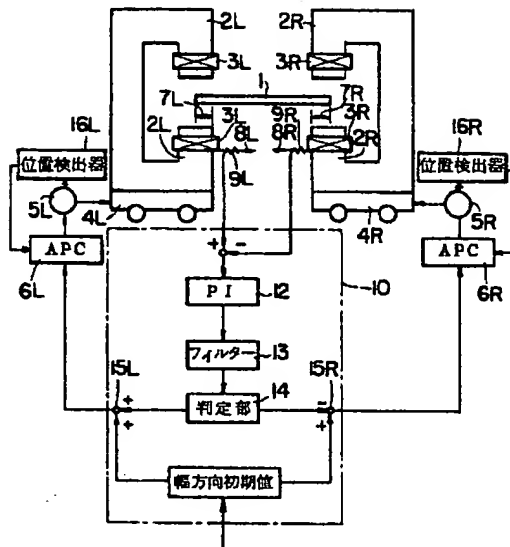
**PROBLEM TO BE SOLVED:** To provide an induction heating control method of the edge parts of a steel sheet, by which the meandering of the steel sheet is detected without using a special meandering detecting instrument of the steel sheet and a truck position for holding a heating coil can be controlled.

**SOLUTION:** High frequency current values conducted in the heating coils 3R, 3L of inductors 2R, 2L at the right and the left sides, are detected and the deviation is obtd. and a truck positioning correcting value is obtd. based on the relation among the deviation current value, the prestored deviation current value and a truck positional correcting quantity of the inductors 2R, 2L needed to make zero of the deviation current value, and the truck positional correcting value is subtracted from a truck positional initial stage setting value at the large current side. The truck positional correcting value is added to the truck positional initial stage setting value at the small current value side, and the truck correcting positions at the right and the left sides are obtd. and the lapping quantities 7R, 7L of the edge parts of the steel sheet is controlled with automatic positional controllers 6R, 6L of the trucks 4R, 4L by outputting the truck correcting positions at the right and the left sides added or subtracted in the automatic positional controllers 6R, 6L of the trucks 4R, 4L and both edge parts of the steel sheet 1 can uniformly be heated to the target value.

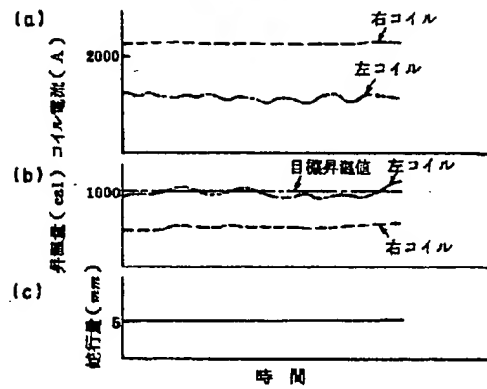
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- |                 |               |
|-----------------|---------------|
| 9L、9R 電流計       | 16L、16R 位置検出器 |
| 10 ラップ量制御部      | 52 摺動子        |
| 11、15L、15R 加減算器 | 53 スプリング      |
| 12 比例積分演算部      | 54 検出器        |
| 13 フィルター        | 64 電源装置       |
| 14 判定部          |               |

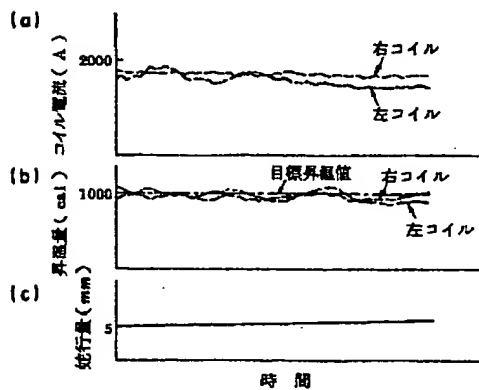
【図1】



【図2】

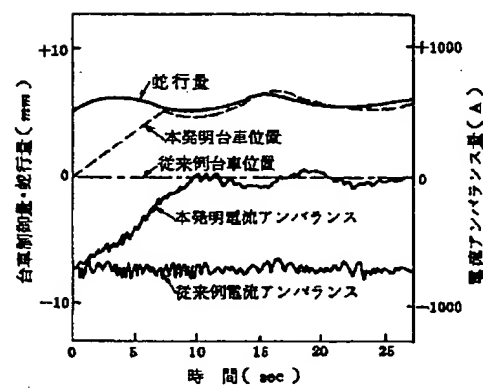


【図3】

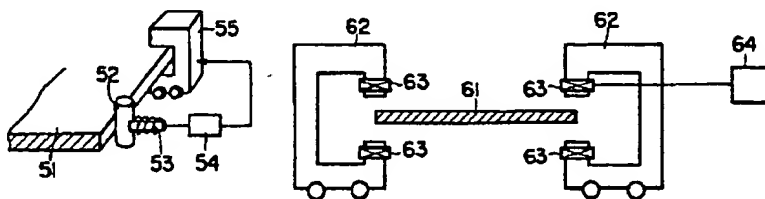


【図5】

【図4】



【図6】



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(51)Int. Cl.<sup>6</sup>

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